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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,146	12/16/2004	Albert Schaap	GRT/4662-368	9953
23117 NIXON & VA	7590 08/07/200 NDERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			MAASHO, KERIMA K	
			ART UNIT	PAPER NUMBER
			1645	
	•		MAIL DATE	DELIVERY MODE
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			08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application No.	Applicant(s)				
		10/518,146	SCHAAP ET AL.				
		Examiner	Art Unit				
		Kerima Maasho	1645				
The MAILING DA	ATE of this communication app	ears on the cover sheet with	the correspondence address				
WHICHEVER IS LONG - Extensions of time may be avarafter SIX (6) MONTHS from the If NO period for reply is specification Failure to reply within the set of	SER, FROM THE MAILING DA aliable under the provisions of 37 CFR 1.13 le mailing date of this communication. ied above, the maximum statutory period w or extended period for reply will, by statute, be later than three months after the mailing	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply rill apply and will expire SIX (6) MONTH: cause the application to become ABAN	y be timely filed S from the mailing date of this communication. DONED (35 U.S.C. § 133). ely filed, may reduce any				
Status			(
1) Responsive to co	ommunication(s) filed on 27 Ju	<u>ne 2007</u> .					
2a) This action is FIN	This action is FINAL . 2b)⊠ This action is non-final.						
, , , , , , , , , , , , , , , , , , , ,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accorda	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,						
4a) Of the above 5) ☐ Claim(s) is 6) ☐ Claim(s) <u>14-35</u> is 7) ☐ Claim(s) is	/are rejected.	ithdrawn from consideration					
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §	119						
a) All b) Som 1. Certified co 2. Certified co 3. Copies of t application	is made of a claim for foreign e * c) None of: opies of the priority documents opies of the priority documents the certified copies of the prior of from the International Bureau detailed Office action for a list	s have been received. s have been received in App ity documents have been re i (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachment(s) 1) Notice of References Cited 2) Notice of Draftsperson's Pa 3) Information Disclosure State	atent Drawing Review (PTO-948)	Paper No(s)/N	nmary (PTO-413) //ail Date rmal Patent Application				
Paper No(s)/Mail Date <u>04/2</u>		6) Other:					

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Detailed action

Applicant's election with traverse of group II drawn to microbial oil in the reply filed on 06/27/2007 is acknowledged. The traversal is on the ground(s) that the invention groups are closely related as to form a single general inventive concept and do not require separate search. The method of pasteurizing microbial cells or organisms may or may not result in the microbial oil as claimed. The method as claimed does not refer to a process for obtaining microbial oil thus, the requirement is still deemed proper and is therefore maintained.

Claims 1, 2, 4, and 11 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Claims 14-35 are pending and are under consideration for further examination.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 14-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Applicants claim "a microbial oil comprising at least" the microbial oil is not recited as isolated or in some

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other fashion extracted from the microbe, as claimed the microbe and any oil it possesses are a product of nature as microbial oils are naturally produced by microorganisms during their life span. The recitation of the limitation "isolated or extracted microbial oil", or if the reference is a composition "a composition of microbial oil" would be remedial.

Claim Rejections - 35 USC § 112-2nd paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 29-35 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 29 provides a process of using microbial oil, "the process comprising: subjecting the microbial oil to one or more steps...", but the claim does not set forth any steps involved in the method/process except for merely stating that it involves subjecting the microbial oil to one or more refining steps and is therefore unclear what process applicant is intending to encompass. While the specification can be used to provide definitive support, the claims are not read in a vacuum. Rather, the claim must be definite and complete in and of itself. Limitations from the specification will not be read into the claims. The

claims as they stand are incomplete and fail to provide adequate steps to allow for one to identify what is being claimed.

Claims 30-35 are also indefinite insofar as they depend directly or indirectly from claim 29.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14-25 refer to a microbial oil, claims 26-28 refer to a foodstuff comprising the microbial oil, and claims 29-31 refer to a process of using the microbial oil for refinement, and adding to food stuff. Claim 35 refers to a process of making the microbial oil by extracting from microbial cells or organisms.

3. Claims 14-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Bijl et al (WO 97/37032 filed in the IDS) in light of Beuderker et al (WO 99/65327).

Bijl et al teach a microbial polyunsaturated fatty acid containing oil with a high triglyceride content and a high oxidative stability which is derived from a bacterial biomass derived from a pasteurized fermentation broth. Bijl et al teach such dervied microbial oil comprising of arachidonic acid with a triglyceride Application/Control Number: 10/518,146 Page 5

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content of greater than 90%, that has anisidine value of at least 5 (pages 4-5). The peroxide value of less than 12 and less than 1.5 were shown in the crude and refined oil (see example 23 pages 49 and 50). Bijl et al also teach that this microbial oil can be produced by fungae that belongs to the Mortierella species (e.g. M. alpine) and that solvents can be used to extract lipid from the bacterial biomass (see background and page 14). Furthermore they teach that the crude form of the extracted lipid is subjected to several refining steps to provide refined oil. Bijl et al also teach the microbial oil can advantageously be used in foods, food stuffs or food compositions or serve as a nutritional supplement, for humans as well as for animals and in particular for inclusion in infant formula (pages 4 and 9-10). Bijl et al teach a process of making the microbial oil complete with the extraction of the microbial oil from the microbial cells or organisms. The source of oil obtained from Bijl would inherently be that of at least 10% arachidonic acid. Beudeker et al is cited merely to show that a high content of microbial arachidonic acid typically 10-40% can be obtained for example from single cell source (e.g. M. alpina) by using the exact same fermentation and extraction method as used in Bijl et al (p 3 - p 6).

Therefore, Bijl et al anticipates all the limitations of claims 14-35 of the present invention.

Conclusion

Claims 14-35 are rejected as explained above.

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Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Kerima Maasho whose telephone number is

571-270-3055. The examiner can normally be reached on Monday-Thursday,

7:30am-5:00pm, ALT. Friday, EST.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Jeffrey Siew can be reached on 571-272-0906. The fax

phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from

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9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer Graser/

Primary Examiner, Art Unit 1645

Patent Examiner
ART UNIT 1645